



3M™ Encapsulant 9130W

Ethylene Vinyl Acetate Encapsulant for Photovoltaic Modules

Product Introduction

3M White EVA is a kind of backside EVA film designed for high efficient solar cells in PV module manufacture. It is compatible with most existing lamination machines and lamination cycles and can provide strong, stable seal and bonding properties with various glass and backsheet. Its high reflectivity helps to increase power efficiency of PV module, especially for double glass module.

Features

- Durable bonding strength with both glass and backsheet.
- Excellent UV and damp heat stability.
- Good appearance and no overflow on cells.
- High reflectivity helps increasing power efficiency especially for double glass module.

Technical Data

Properties	Items		Test Method	Units	Typical Value
Physical	Unit Weight		Internal test	g/m ²	440
	Tensile (Cured)	MD	ASTM D882	MPa	7
		TD		MPa	7
	Elongation (Cured)	MD		%	55
		TD		%	55
Adhesion to Glass		ASTM D903	N/cm	70	
Electrical	Volume Resistivity (Cured)		ASTM D257	Ω·cm	1.3×10 ¹⁴
Optical	Reflectivity (Cured)		ASTM 97	%	90
Thermal	Dimensional Stability (Uncured)	MD	ASTM 1204	%	-3.0
		TD		%	1
Durability	UV Resistance(32kWh/m ²)	△b*	ASTM G154	-	1.0

Data not for specification purpose

Suggested Lamination Conditions

Condition	Unit	Suggested Value
Lamination Temperature	°C	145~155
Evacuation Time	Min	3~7
Press Time	Min	8~13

Storage

Shelf life is 6 months under proper storage conditions. The product shall be stored indoor with the temperature controlled between 0°C-30°C and relative humidity below 60%, avoiding direct sunlight. The product shall not be placed near any heating equipment or exposed in a dusty place. Check the package box of stored product before unfolding. The product shall be used up as soon as possible after the package is unfolded. The unused should be properly sealed with original package or similar package.

[For more information on our solar manufacturing product line, contact 3M Renewable Energy at 800-755-2654 or visit us at \[www.3M.com/solar\]\(http://www.3M.com/solar\).](#)

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